

### Abstract of the Disclosure

Alternative designs, materials and manufacturing methods for guidewires. Some embodiments pertain to a composite guidewire having proximal and distal section, and a connector adapted and configured for permanently joining the proximal section to the  
5 distal section. In some embodiments, at least one of the sections is made of a linear-elastic nickel-titanium alloy. Several alternative guidewire tip designs including coiled safety/shaping structures are also disclosed.